

# Global Automobile SiC and GaN Power Devices Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Automobile SiC and GaN Power Devices market size was valued at US\$ 2878 million in 2024 and is forecast to a readjusted size of USD 13530 million by 2031 with a CAGR of 25.0% during review period.

SiC (silicon carbide) is a compound semiconductor composed of silicon and carbide. SiC provides a number of advantages over silicon, including 10x the breakdown electric field strength, 3x the band gap, and enabling a wider range of p- and n-type control required for device construction.

GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. It is expected that GaN power devices market share will further increase in the next few years.

This report studies the Automotive SiC Power Devices and GaN Power Devices.

SiC Power Devices are mainly used in Automotive Main Inverter, On-Board Chargers and DC/DC Converter. and the SiC power devices market was dominated by STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor.

GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. GaN power devices are currently mainly used in consumer electronics, such as mobile phone fast charging, adapters, etc. In the automotive, the entry point of GaN power devices is the on-board charger (OBC). Currently, the GaN power devices are dominated by Innoscience, Infineon (GaN

Systems), Power Integrations, Inc., Navitas Semiconductor, Efficient Power Conversion Corporation (EPC), and Renesas Electronics (Transphorm), among which Innoscience is the world's largest GaN power device manufacturer.

This report is a detailed and comprehensive analysis for global Automobile SiC and GaN Power Devices market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Automobile SiC and GaN Power Devices market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Automobile SiC and GaN Power Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Automobile SiC and GaN Power Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Automobile SiC and GaN Power Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Automobile SiC and GaN Power Devices
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Automobile SiC and GaN Power Devices market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments.

Key companies covered as a part of this study include STMicroelectronics, Infineon (GaN Systems), Wolfspeed, Rohm, onsemi, NXP, Innoscience, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Automobile SiC and GaN Power Devices market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

SiC Power Devices

GaN Power Devices

### **Market segment by Application**

Main Inverter

EV On-Board Chargers

DC/DC Converter

Others

### **Major players covered**

STMicroelectronics

Infineon (GaN Systems)

Wolfspeed

Rohm

onsemi

NXP

Innoscence

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Toshiba

Bosch

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

United Nova Technology

KEC Corporation

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Nexperia

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StarPower

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Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

## PN Junction Semiconductor (Hangzhou)

### **Market segment by region, regional analysis covers**

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

### **The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Automobile SiC and GaN Power Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automobile SiC and GaN Power Devices, with price, sales quantity, revenue, and global market share of Automobile SiC and GaN Power Devices from 2020 to 2025.

Chapter 3, the Automobile SiC and GaN Power Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automobile SiC and GaN Power Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Automobile SiC and GaN Power Devices market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automobile SiC and GaN Power Devices.

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